

# NO CODE ANALYSIS

## TEAM - 6



Dhanushkumar S G  
Dhinakaran S B  
Gokul M  
Karthikeyan K  
Karthikeyan R

# PROBLEM STATEMENT

The most appealing reason is that one simple graph says more than twenty pages of prose. These graphs laid foundation for the growth of Data analysis - an auspicious branch of computer science. Data analysis for business, finds its significant place in the wide umbrella of its applications.

It provides actionable insights into customer behavior along with comprehensive market analysis thereby providing a competitive edge to businesses. Data analysis involves the processes of Defining the Question, Collecting the data, Cleaning the data, Visualizing the data, Analyzing the data, Sharing your results, Embracing failure, Summary. Currently these processes are being carried out manually, tools automating any of these processes would come in handy.



# OBJECTIVE



- The project's goal is to create a data cleaning and visualization tool to smooth data analysis process. This project primarily concentrates different data visualisation techniques.
- This application when completely constructed will be able to automate data cleaning and data visualisation. It will be making data analysis simpler. Inferences about the data can also be collected from this framework.

# PROPOSED SOLUTION

A decorative graphic on the right side of the slide. It features a stylized rocket ship with a grey body, orange and pink circular accents, and a pink flame at the bottom. Several rectangular cards with rounded corners and various colored dots (orange, pink, red) are floating around the rocket. The background is a solid dark purple.

A web-based application that collects sales data, cleans it, and analyses it to assist managers gain insight into business operations in order to make better decisions and achieve better outcomes. It enables them to manage, process, and simplify enormous datasets in real time, while also improving their ability to make data-driven decisions.

# PROJECT PHASES

- Collecting the data
- Cleaning the data
- Visualizing the data
- Analyzing the data
- Sharing your results



# DATA VISUALIZATION



- In our increasingly data-driven world, it's more important than ever to have accessible ways to view and understand data. That's where data visualization comes in handy.
- With the goal of making data more accessible and understandable, data visualization in the form of dashboards is the go-to tool for many businesses to analyze and share information.

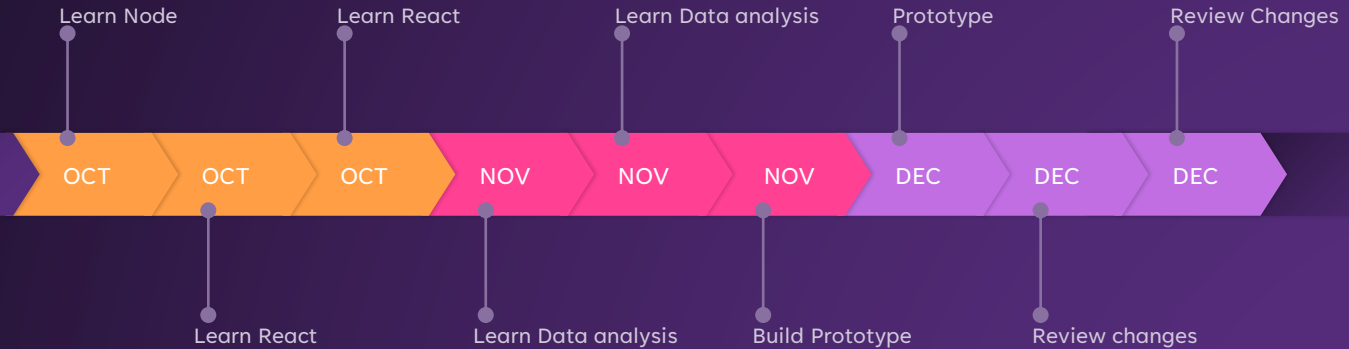
# Literature Survey

By fusing data sources, Microsoft Power BI gives customers access to a business intelligence dashboard. It may connect to only an Excel spreadsheet or link data warehouses that are cloud- and on-premises-based. The information retrieved from cloud-based resources, such as Salesforce CRM, is instantly updated.

[Literature Survey](#)



# TIMELINE





# METHODOLOGY

## DATA TRANSFORMATION

The selected dataset includes information that may or may not be helpful to us. Data pre-processing is the process of identifying the most important data from the whole dataset for subsequent processing. Hence, the unwanted part of the data is removed. As a result, processed data is ready to train the machine.

## FRONT-END API

It is the interface between the front-end application and the data visualization and machine learning model. It fetches the input provided by the user in the front end and throws it to visualization pipeline that works behind the scene to provide visual data, then carries out data analytics

## BACK-END

The background operations are carried out in JavaScript which manages file upload, delete, visualizing and other user functions, assisted by Python for carrying out Data Analytics on the dataset.

# METHODOLOGY

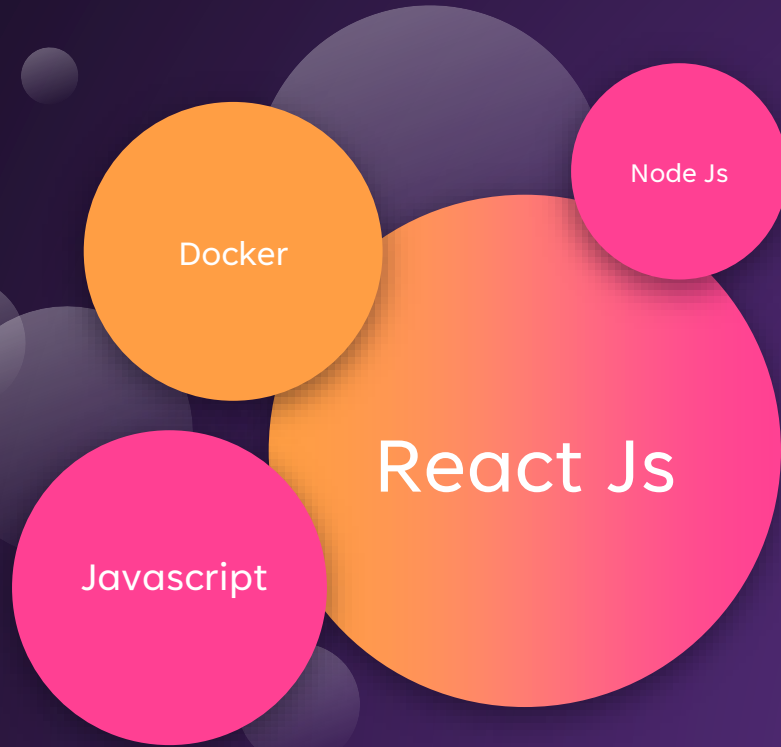
## SERVER-SIDE SCRIPTING

The software also utilizes the power of the server to provide quick results on training and Data Analytics and Machine Learning are carried out in the server to reduce the pressure on client-side resources, Delivering faster and efficient trained models within a short span of time regardless of the client's resources.

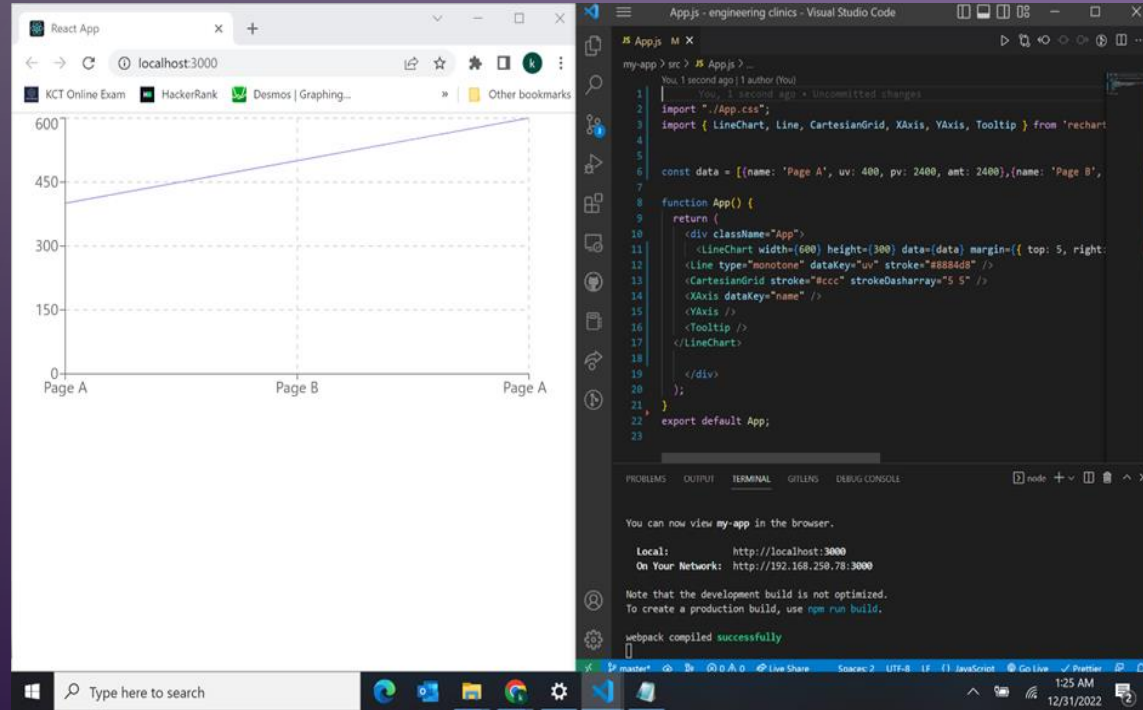
## DOCKERIZED ENVIRONMENT

It depends on various libraries of different versions for functioning, it is dockerized to provide easy to deploy and use functionality to clients. It also allows users to run parallel instances training multiple models parallelly.

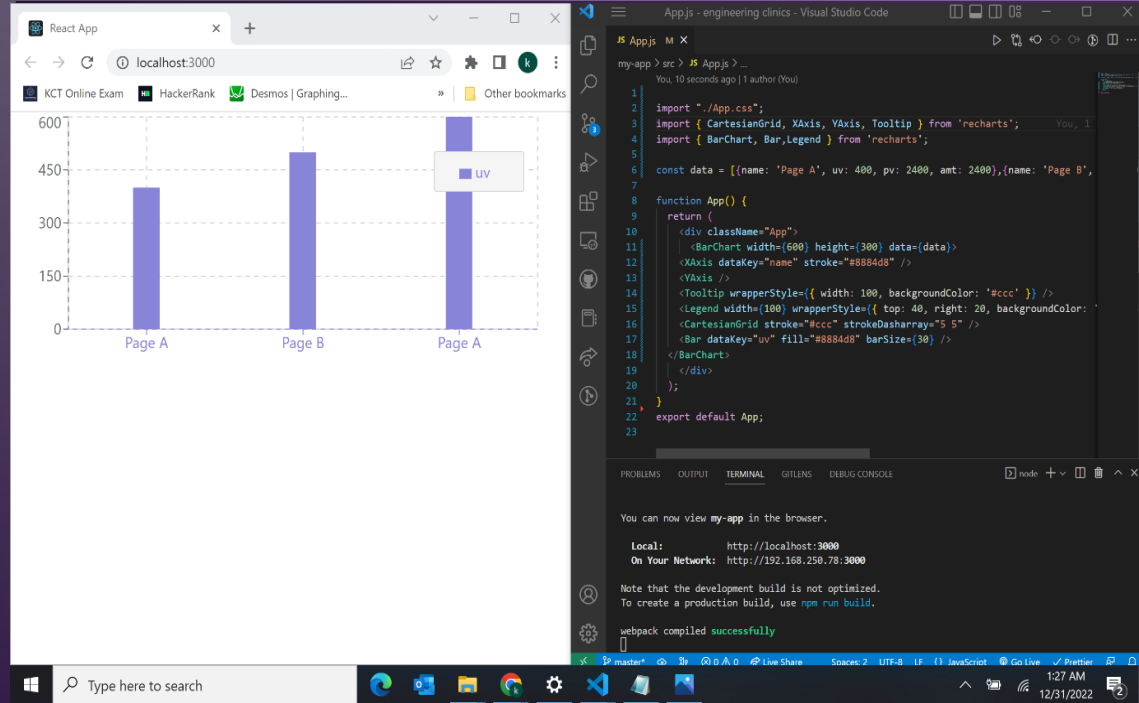
# STACKS USED



# NO CODE ANALYSIS



# NO CODE ANALYSIS



# NO CODE ANALYSIS

Connect

Save

Export

Grid

Charts

Fields

Minimize

To local CSV

To local JSON

CATEGORY

COUNTRY

Accessories

Bikes

Cars

Clothing

Components

COLOR

Australia

Canada

France

Germany

United Kingdom

United States

Australia

Sum of Price

15 732.00

2 589.00

242.00

12 901.00

75 397.00

1 271 744.00

4 302.00

61 938.

Sum of Discount

252.00

111.00

41.00

100.00

268.00

2 063.00

255.00

5 441.

Sum of Quantity

4 900.00

3 815.00

71.00

1 014.00

728.00

1 132.00

53 299.00

595 414.

Canada

Sum of Price

17 546.00

9.00

17 435.00

102.00

62 059.00

978 399.00

3 719.00

49 439.

Sum of Discount

401.00

90.00

219.00

92.00

389.00

1 663.00

358.00

4 960.

Sum of Quantity

7 594.00

966.00

6 067.00

561.00

461.00

1 242.00

52 358.00

535 640.

France

Sum of Price

11 160.00

4 896.00

6 138.00

126.00

73 138.00

633 112.00

5 329.00

49 911.

Sum of Discount

305.00

94.00

162.00

49.00

387.00

1 460.00

377.00

4 969.

Sum of Quantity

6 229.00

1 482.00

4 514.00

233.00

640.00

872.00

37 499.00

450 705.

blue

Sum of Price

23 433.00

1 023.00

20 259.

Sum of Discount

117.00

20.00

2 336.

Sum of Quantity

269.00

8 467.00

214 882.

green

Sum of Price

Sum of Discount

Sum of Quantity

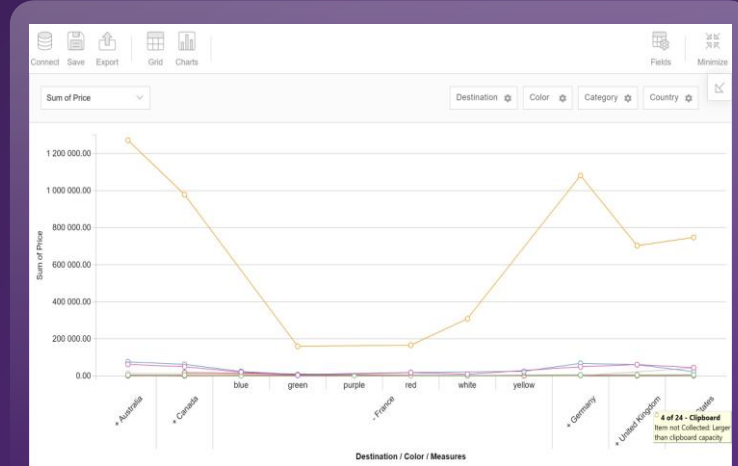
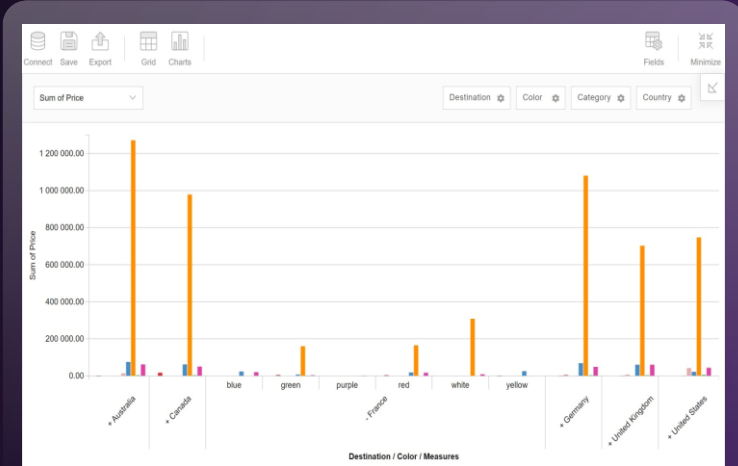
javascriptvoid(0)

# NO CODE ANALYSIS

The screenshot displays a no-code data analysis tool interface. At the top, there is a toolbar with icons for 'Connect', 'Save', 'Export', 'Grid', and 'Charts'. On the right side of the toolbar, there are icons for 'Fields' and 'Minimize'. The main area shows a data grid with columns labeled 'CATEGORY' and 'COUNTRY'. A 'Fields' dialog box is open in the center, allowing users to drag and drop fields to arrange the report. The dialog box has four main sections: 'All fields', 'Report filters', 'Columns', and 'Rows'. The 'All fields' section lists 'Business Type', 'Category', 'Color', 'Country', 'Destination', 'Discount', 'Price', and 'Quantity'. The 'Report filters' section is empty. The 'Columns' section has 'Category' selected. The 'Rows' section has 'Destination', 'Color', and 'Values' selected. The 'Values' section has 'Sum of Price' and 'Sum of Quantity' selected. The background data grid shows a table with columns for 'CATEGORY', 'COUNTRY', and various numerical values.

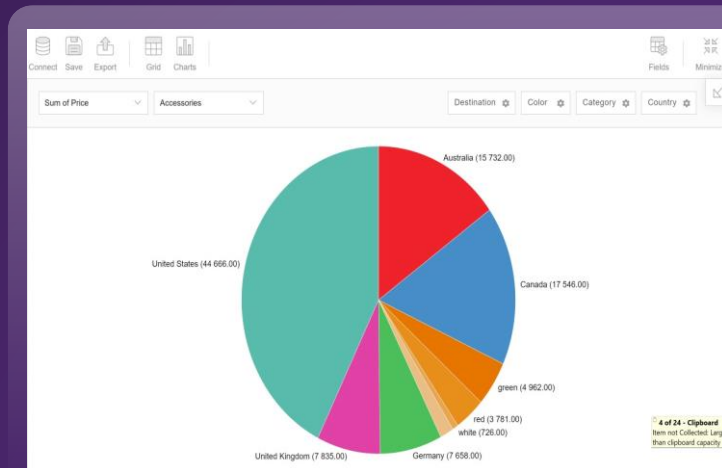
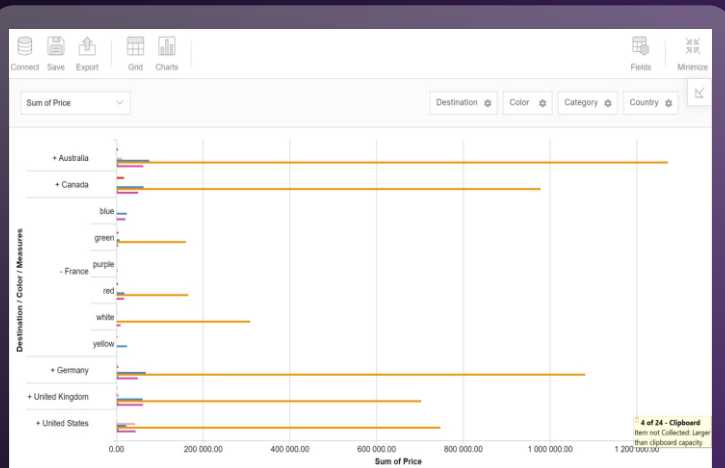
CATEGORY	COUNTRY	Sum of Price	Sum of Discount	Sum of Quantity
Accessories	Australia	15 732	252	4 900
Accessories	Canada	17 546	401	7 594
Accessories	France	11 160	305	6 229
Accessories	blue	1 744.00	4 302.00	61 938
Accessories	Sum of Price	2 963.00	255.00	5 441
Accessories	Sum of Discount	1 132.00	83 299.00	695 414
Accessories	Sum of Quantity	8 399.00	3 719.00	49 439
Accessories	Sum of Price	1 863.00	358.00	4 960
Accessories	Sum of Discount	1 242.00	82 358.00	635 640
Accessories	Sum of Quantity	3 112.00	5 329.00	49 911
Accessories	Sum of Price	1 460.00	377.00	4 989
Accessories	Sum of Discount	872.00	37 499.00	450 705
Accessories	Sum of Quantity	1 023.00	20 259	
Accessories	Sum of Price	117.00	20.00	2 336
Accessories	Sum of Discount	269.00	8 467.00	214 882
Accessories	Sum of Quantity			
Accessories	Sum of Price			
Accessories	Sum of Discount			
Accessories	Sum of Quantity			

# NO CODE ANALYSIS

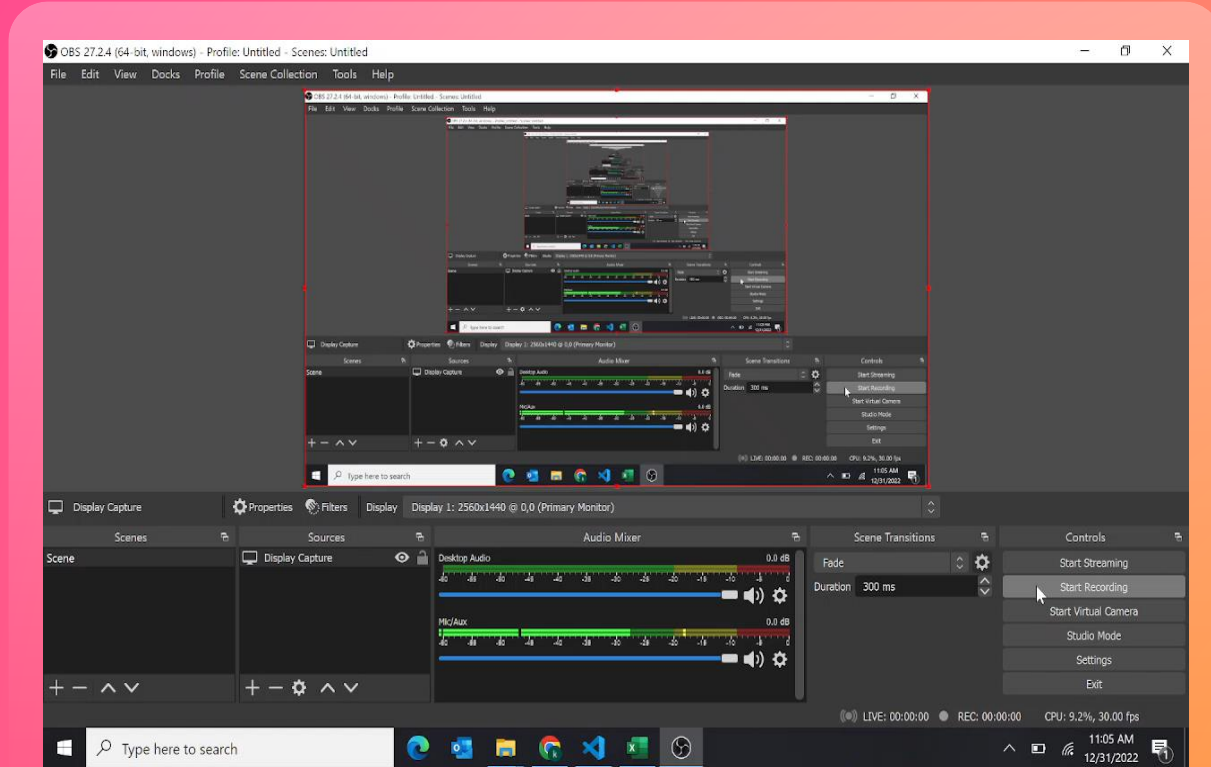




# NO CODE ANALYSIS



# PROJECT DEMO VIDEO



# CONCLUSION

The expansion of businesses occurs at an exponential rate. Data analysis is essential for the promotion of such small firms. This approach of data visualization is easier and simpler than sifting through the entire program's working code since it makes use of the user's privileges. Because it is necessary to download programmed from unauthorized and dubious third-party websites, average people lose their personal information and begin to question the system. Users can quickly and easily obtain accurate statistics and data visualization using this strategy. This technique is also applicable to other situations where a significant volume of sensitive data needs to be analyzed.

# REFERENCES

[1] Research Data Analysis with Power BI, Vijay Krishnan S Bharanidharan G Krishnamoorthy,

[2] The art of Data Analysis 1. Muhammad Ibrahim, Department of Statistics, Govt. MAO College, Lahore

[3] Characterizing Exploratory Visual Analysis: A Literature Review and Evaluation of Analytic Provenance in Tableau, Leilani Battle<sup>1</sup> and Jeffrey Heer<sup>2</sup>,

[4] Towards Automated Data Cleaning Workflows, Ziawasch Abedjan Felix Neutatz Mohammad Mahdavi Larysa Visengeriyeva

**Thank you !!**